

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Wisconsin Department of Transportation

INSTRUCTIONS:

Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

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| Transportation Pooled Fund Program Project # <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> MAFC II TPF-5 (293) | Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 30) <input checked="" type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31) | |
| Project Title: Mid-America Freight Coalition Pooled Fund II – Member Services 2017-2018 | | |
| Name of Project Manager(s): Ernie Perry | Phone Number: 608 890 2310 | E-Mail ebperry@wisc.edu |
| Lead Agency Project ID: TPF-5(293) | Other Project ID (i.e., contract #): TRA 3475291 | Project Start Date: 7/1/2017 |
| Original Project End Date: 12/31/2018 | Current Project End Date: 12/31/2018 | Number of Extensions: 0 |

Project schedule status:

On schedule
 On revised schedule
 Ahead of schedule
 Behind schedule

Overall Project Statistics:

| Total Project Budget | Total Cost to Date for Project | Percentage of Work Completed to Date |
|------------------------------|--------------------------------|--------------------------------------|
| \$125,000 as of July 1, 2017 | \$85,554 | 75% |

Quarterly Project Statistics:

| Total Project Expenses and Percentage This Quarter | Total Amount of Funds Expended This Quarter | Total Percentage of Time Used to Date |
|----------------------------------------------------|---------------------------------------------|---------------------------------------|
| \$0.00/0% | \$0 | 67% |

Project Description:

History: The Mississippi Valley Freight Coalition was renamed the Mid-America Freight Coalition in 2010.

The goal of this pooled fund is to improve the efficiency of freight movements in the region through inter-jurisdictional cooperation. Through the Mid-America Freight Coalition, the MAASTO states will work cooperatively in the planning, operation, preservation, and improvement of the freight transportation system infrastructure and engage the public and private sectors in the processes for improving the efficiency of these freight transportation systems.

This Member Service contract entails the services provided to Members of the Coalition, which includes coordinating and funding an annual meeting and communication efforts including Web site and newsletter production and teleconferences/webinars. This contract also provides the administrative support for all MAFC projects.

All MAFC projects currently under contract through this pooled fund include:

Modal Investment Comparison report (completed October 2017)

TPF-5(293) Member Services 2017-2018 (in progress)

Identification and Characterization of the MAASTO Region's Multimodal Freight Network (in progress)

MAFC Development of Midwest Platooning Regulatory Model (complete)

Identification of Urban Truck Parking Locations in the MAASTO Region (in progress)

Quantifying the Value of Multimodal Freight Investments (in progress)

The MAASTO Executive Board unanimously approved an additional three-year extension for MAFC at the August 2015 MAASTO meeting in Kansas City, Missouri, to December 31, 2018. This was reaffirmed at the 2017 summer MAASTO meeting when the states agreed to begin a new pooled fund in January 2019 and spend remaining Coalition funds on freight research issues.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

An overall project summary table is provided below.

| Project | Start Date | End Date | Comments |
|---------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MAFC/MAASTO Research Plan | 1/2017 | 7/27/2017 | Plan approved; some studies underway, 7 of 8 projects contracted or in process. |
| Modal Investment Comparison | 8/1/2015 | 10/30/2017 | Complete, see: http://midamericafreight.org/wp-content/uploads/MAFC16_ModallInvestmentComparison_FinalReport.pdf 100% of the contract amount has been paid for this study. |
| Identification and Characterization of the MAASTO Region's Multimodal Freight Network | 7/1/2017 | 5/31/2018; 1 st extension to 8/3/2018; 2 nd extension to 10/17/2018 | 75% complete with collection of USDOT corridors and corridors identified in states' freight plans as potential corridors to be examined in the study effort. FAF4 data has been used to estimate value of corridors, A paper based on this effort has been submitted to TRB. The evolution of highways as freight corridors is also being tracked in order to provide context and history for the accelerated pace in defining a freight system and its components Two invoices, totaling approximately \$70k (about 87.5% of contract's total amount) have been paid for this study. As of 7/17/2018, two additional invoices have been submitted by UW-Madison, totaling the |

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|----------------------------------------------------------------------|----------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | <p>remaining \$10k of the contract; these invoices will be paid upon completion of the study.</p> <p>Personnel with GIS and database management experience have joined the team at UW-Madison. GIS analysis now completed and document is being assembled.</p> <p>Researcher asked for extension to 10/17/2018 for this study due to data collection delays.</p> |
| MAFC Development of Midwest Platooning Regulatory Model | 9/1/2017 | 2/28/2018; extension to 6/15/2018 | <p>Draft final report has been completed and reviewed by WisDOT. Final edits have been completed. The MAASTO Truck Automation Working groups has reviewed and approved the report.</p> <p>No invoices have been submitted for this study as of 7/17/2018.</p> |
| Identification of Urban Truck Parking Locations in the MAASTO Region | 1/1/2018 | 1/31/2019 | <p>As states respond to requested information on locations of interest and contacts regarding urban parking areas, follow up calls are made to MPOs and others to determine who may have useable land use, ownership and GIS road network data. Data collection includes 4 states so far. With information from 4 states, this places the project at approximately 40% complete.</p> <p>Additionally the GIS screening approach is being reviewed to ensure the best representation of viable vacant land for parking.</p> <p>Two invoices for this study, totaling approximately \$78k (about 78% of the contract's total amount) are in the process of being paid as of 7/17/2018.</p> <p>Completing GIS review of preliminary work.</p> |
| Quantifying the Value of Multimodal Freight Investments | 4/1/2018 | 1/31/2019 | <p>A review of economic models used across the modes has been completed and subjective factor are now being considered. States have been asked to send a summary of their analysis approaches. This project is approximately 75% complete.</p> <p>No invoices have been submitted for this study as of 7/17/2018.</p> |

Additional activities in support of the coalition by Dr. Perry include the following:

05/01/2018 – 06/30/2018 – Work continues on the MAFC annual meeting. Completed organizing sessions and making travel arrangements, meeting registration, and lodging with MI DOT.

One contract (MAASTO Regional Bottleneck study) in coordination with WisDOT for contracting late June/early July 2018.

Finalizing last three proposals to submit for contracting.

Perry is working with WisDOT to get the remaining projects approved by the MAASTO Board of Directors in 2018 under contract. See Table 1 below.

Perry made a presentation on MAFC at the 5/30/2018 Wisconsin Freight Advisory Committee meeting.

| Table 1. Additional Projects for MAFC Research agenda 2017-2018 | | |
|------------------------------------------------------------------------|--------------------|---------------|
| Project Title | Projected Duration | Cost |
| *MAASTO Region Bottlenecks study | 8 months | \$95,000 |
| TPIMS data warehouse and TIGER performance metrics | 36 months | \$95,000/year |
| *Freight Data Training | 8 months | \$80,000 |
| *OSOW support for MC committee and SCOHT | 3 months | \$30,000 |
| *Projects are in contracting process | | |

Anticipated work next quarter:

We will continue work on the prioritized research agenda for the coalition. MAFC will host state technical representatives at the 2018 MAFC/MAASTO summer meeting. Remaining projects will be contracted.

Data identification and collection will continue for the TPIMS performance evaluation. The needed hardware to operate the data will be purchased and installed.

Test links and burn -in data will be addressed first in the GIS analysis and database integration for corridor projects.

Will continue to update web with relevant materials and plan for the 2018 Annual Meeting. We will also create project oversight teams for each project.

Will began work with WisDOT on continuing the MAFC TPF.

Significant Results:

Continued to work with TPIMS group to prepare for implementation of the TPIMS.

Participate in monthly MAASTO Planning committee meetings to keep committee informed of work.

Participate in monthly MAASTO Motor Carrier committee calls to support upcoming OSOW project.

Also attending SCOHT teleconference as part of OSOW support project in the research agenda.

Completed Platooning brochure and full literature review for STIC and the MAASTO Connected vehicles working group.

TRB paper submitted for presentation and publication based on work with the characterization of MAASTO freight network.

Agenda and speakers set for MAFC Annual meeting.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the Agreement, along with recommended solutions to those problems).

N/A

Potential Implementation

Work with TPIMS continues and as states go on line with the parking information systems, the performance measures and data warehouse will be prepared. The characterization of MM corridors and bottlenecks can be seen as a step towards prioritization of regional corridors

Work with Platooning working group has resulted in a “leave behind” fact brochure on truck platooning that will be shared with stakeholders and decision makers. A more exhaustive full literature review/report of truck platooning is now completed (see above).

Distributed copies of the brochure to the MAASTO AV and Truck Platooning Working group. Distributed to MAFC technical representatives.

With completion of the speaker line up for the MAFC Annual meeting, technical members will have an opportunity to hear from their peers and industry on current and upcoming multimodal freight issues and successes. Registration, hotel reservation and travel arrangement for state representatives have been completed by MAFC.

Importantly, all of the projects will be based on collaboration with the 10 MAASTO states. For the OSOW and Platooning studies, DOT will be coordinated with the Motor Carriers and SCHOT groups and the MAASTO Platooning working group.